

ABSTRACT OF THE DISCLOSURE

5 A multi-channel optical communication system includes an optical transmitting apparatus and an optical receiving apparatus. The optical transmitting apparatus has a retroreflector and a modulator for modulating light reflected by the retroreflector according to a transmission signal. The light receiving apparatus has a light source and a demodulating circuit for demodulating the transmission signal modulated by the modulator from the light emitted from the light source and reflected from the retroreflector. The modulator includes a plurality of optical reflection devices arranged on a reflection plane of the retroreflector and capable of controlling optical reflection independently of each other and a circuit for separately controlling each of the optical reflection devices. The demodulating circuit includes a CCD having a plurality of photoreceptors arranged correspondingly to the arrangement of the optical reflection devices.

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